

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	19	"6440057"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:13
S2	19	((JIN-SUK) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:15
S3	1	((DEOG-KEUN) near2 (KIM)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:22
S4	1	((SOON-CHUL) near2 (PARK)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:22
S5	1	((JOON-PYO) near2 (LEE)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:22
S6	26	((SUNG-HYUN) near2 (KIM)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:23
S7	2	((KEUN-HOO) near2 (LEE)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 08:23
S8	17	"5514820"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:11
S9	58	transesterification same add same (alkyl near3 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:56
S10	8	transesterification with add same (alkyl near3 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:57
S11	5	add with (alkyl near3 ester) with transesterification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:03

S12	0	seeding same transesterification same (alkyl near3 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:06
S13	69	adding with (alkyl near3 ester) same alcohol same (fat? or oil?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:07
S14	1	adding with (alkyl near3 ester) with alcohol with (fat? or oil?) same emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:19
S15	0	transesterification same (alkyl near3 ester) same (emulsion near3 breaking)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:22
S16	63	(alkyl near3 ester) same (emulsion near3 breaking)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:22
S17	41	S16 and (fat? or oil?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:22
S18	422	(alkyl near2 ester) same (as near2 solvent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:52
S19	75	S18 and Esterification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:54
S20	152	(alkyl near2 ester) with (as near2 solvent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:55

S21	0	S20 and \$estrification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:55
S22	24	S20 and (fat? or oil?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:56
S23	21	(fat? or oil?) near6 alcohol with catalyst with (methyl near2 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:00
S24	2	mixing with (fat? or oil?) with alcohol with catalyst with (methyl near2 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:04
S25	1	((fat? or oil?) with alcohol with catalyst with mixing near6 (methyl near2 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:25
S26	0	mixing near6 ((methyl near2 ester) with (fat? or oil?) with alcohol with catalyst)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:28
S27	3	(oil near5 alcohol with hydroxide) same (mixed with (methyl near2 ester))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:30
S28	0	(oil near5 alcohol near5 emulsion) same (mixed with (methyl near2 ester))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:32
S29	0	(oil near5 alcohol near5 emulsion) same (mixing with (methyl near2 ester))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:32

S30	7	(oil near5 alcohol near5 emulsion) same (methyl near2 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 11:33
S31	3	transesterification same (single near2 phase near2 reaction near2 mixture)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 12:20
S32	0	(single adj phase adj process) same cosolvent same (alkyl near4 ester?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:01
S33	2	(single adj phase adj process) same cosolvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:02
S34	249	(single adj phase) same cosolvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:02
S35	13	S34 and transesterification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:02
S36	38	cosolvent near8 (alkyl near4 ester?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:05
S37	0	(fatty near3 acid near3 alkyl near3 ester) with recycle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:38
S38	21	(fatty near3 acid near3 alkyl near3 ester) with recycle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:38

S39	4	S38 and transesterif\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:39
S40	4	(fatty near3 acid near3 alkyl near3 ester) with return\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:42
S41	1002	(fatty near3 acid near3 alkyl near3 ester) with solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:45
S42	63	S41 and transesterif\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:46
S43	53	S42 and (fat? or oil?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:47
S44	504	(fatty near3 acid near3 alkyl near3 ester) near10 solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:52
S45	480	S44 not S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:53
S46	7	S45 and transesterif\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:54
S47	6531	(alkyl near5 ester) near7 solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:56

S48	780	S47 and (fat? or oil?) and (esterif\$7 or transesterif\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:56
S49	43	S48 and recycle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 19:57
S50	45	"2383601"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 20:40
S51	2	"6933398"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/21 11:26
S52	3	((nikolaus) near2 (foidl)).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/21 12:04
S53	9	"4004041"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/21 12:22
S54	3	"7166311"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/21 12:30
S55	1029	transesterification same reflux	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:39
S56	438	S55 and (far? or oil?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:40

S57	29	S56 and (fatty near2 acid near2 alkyl near2 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:40
S58	0	biodiesel with (preesterification near7 (free near2 fatty near2 acid))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:52
S59	86	"5525126" "4698186" "4164506".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/18 16:50
S60	23	((JIN-SUK) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:45
S61	1	((DEOG-KEUN) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:46
S62	1	((SOON-CHUL) near2 (PARK)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:46
S63	1	((JOON-PYO) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:46
S64	32	((SUNG-HYUN) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:46
S65	2	((KEUN-HOO) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/18 19:47
S66	3978	(esterification or esterify) same (fat? or oil?) same solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 12:50
S67	153	reflux near10 (crude near5 ester)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 12:57
S68	39	S67 and (esterification or esterify or preesterification or preeserify)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 12:58

S69	39	S67 and (esterification or esterify or preesterification or preesterify)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:06
S70	9	"5116546"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:06
S71	1077	554/167,169,170,174.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:33
S72	0	S71 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:34
S73	57	S71 and S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:34
S74	742	44/408,385,388.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:43
S75	14	S66 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:43
S76	4892	esterification near5 solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:44
S77	297	(fatty adj acid adj methyl adj ester) near10 solvent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:45



S78	9	S76 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:45
S79	0	S67 and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:50
S80	0	S67 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:50
S81	32	S71 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:51
S82	0	method with (fatty adj acid adj methyl adj ester?) with alcohol with (methyl adj ester) with (acid adj catalyst)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:54
S83	1	(fatty adj acid adj methyl adj ester?) with alcohol with (methyl adj ester) with (acid adj catalyst)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:54
S95	18	*4652406"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/31 13:59

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S84	574	554/167,169,170,174.ccls.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S85	418	44/408,385,388.ccls.	USPAT; UPAD	OR	ON	2010/05/31 13:49

S86	6	((JIN-SUK) near2 (LEE)).INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S87	0	((DEOG-KEUN) near2 (KIM)). INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S88	0	((SOON-CHUL) near2 (PARK)). INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S89	0	((JOON-PYO) near2 (LEE)).INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S90	14	((SUNG-HYUN) near2 (KIM)). INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S91	1	((KEUN-HOO) near2 (LEE)).INV.	USPAT; UPAD	OR	ON	2010/05/31 13:49
S92	836	(esterification or esterify) same (fat? or oil?) same solvent	USPAT; UPAD	OR	ON	2010/05/31 13:55
S93	14	S84 and S92	USPAT; UPAD	OR	ON	2010/05/31 13:55
S94	11	S85 and S92	USPAT; UPAD	OR	ON	2010/05/31 13:58

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